

CLAIMS

We claim:

- 1 1. A tool comprising:
 - 2 a handle;
 - 3 a shaft comprising a shaft axis connected to the handle;
 - 4 and
 - 5 an engaging portion comprising an engaging portion axis, a
 - 6 first end and a second end;
 - 7 wherein the first end is connected to the shaft;
 - 8 wherein the engaging portion comprises an opening extending
 - 9 from the first end to the second end thereby defining an axial
 - 10 inner surface of the engaging portion and an axial outer surface
 - 11 of the engaging portion;
 - 12 wherein the opening comprises a first portion at the first
 - 13 end with a first opening area and a second portion at the second
 - 14 end with a second opening area;
 - 15 wherein the first opening area has a different shape than
 - 16 the second opening area;
 - 17 wherein the engaging portion comprises a slot extending
 - 18 from the axially inner surface to the axial outer surface; and
 - 19 wherein the second end of the axial inner surface comprises
 - 20 a plurality of engaging surfaces.

1 2. The tool according to claim 1, wherein said shaft and
2 said engaging portion are of one-piece construction.

1 3. The tool according to claim 1, wherein said shaft axis
2 is offset from said engaging portion axis.

1 4. The tool according to claim 1, wherein said engaging
2 portion and engaging surfaces are adapted to allow engagement
3 with a standard sized connector.

1 5. The tool according to claim 1, wherein said first
2 portion of said opening is adapted to fit a standard ratchet.

1 6. The tool according to claim 1, wherein said opening
2 further comprises an inner portion of said axial inner surface
3 located between said first portion and said engaging surfaces,
4 the inner portion comprising a third opening area smaller than
5 said second opening area.

1 7. The tool according to claim 6, wherein said inner
2 portion comprises a seat for a connector whereby the connector
3 is prevented from moving in the direction parallel to said
4 engaging portion axis.

1 8. The tool according to claim 1, wherein said engaging
2 portion comprises a plurality of points arranged in an arc about
3 said engaging portion axis.

1 9. The tool according to claim 1, wherein the slot is
2 adapted to accommodate a linear member attached to a connector.

1 10. A tool comprising:

2 a generally hollow cylindrical wrench of one-piece
3 construction, having an axial inner surface, an axial outer
4 surface, a first end, a second end, a center portion, a slot
5 extending from the first end to the second end, and a
6 longitudinal axis having a length extending from the first end
7 to the second end;

8 a first engaging portion disposed on the axial inner
9 surface of the first end of the tool, the first engaging portion
10 further comprising a plurality of axial engaging surfaces
11 adapted to cooperative engage a multi-faceted connector;

12 a plurality of notches defined in the first end of the
13 generally hollow cylindrical wrench, the notches extending from
14 the axial inner surface to the axial outer surface; and

15 a second engaging portion disposed on the axial inner
16 surface of the second end of the tool, the second engaging
17 portion further comprising a plurality of tapered engaging
18 surfaces, adapted for cooperatively engaging the tapered sides
19 of a multi-faceted connector.

1 11. The tool according to claim 10, wherein the tool is of
2 one-piece construction and about 7" long.

1 12. The tool according to claim 10, wherein said first and
2 second engaging portions and engaging surfaces are adapted for
3 engaging a standard sized connector.

1 13. The tool according to claim 10, wherein said first
2 engaging portion and said second engaging portion each has five
3 engaging surfaces approximately 3/4" long.

1 14. The tool according to claim 10, wherein said slot is
2 adapted to accommodate a substantially linear water line sized
3 for a sink or a lavatory.

1 15. The tool according to claim 10, wherein the tapered
2 engaging surfaces has an opening approximately 15/16" at the
3 second end of the tool, tapering to approximately 7/8".

1 16. The tool according to claim 10, wherein the axial
2 outer surface of said center portion has a plurality of flat
3 surfaces spaced radially around said axial outer surface, the
4 flat surfaces being adapted to cooperatively engage a standard
5 open-end wrench.